

10/817,465

CLM What is claimed is:

1. A process for the continuous preparation of an **isobutylene polymer** by homopolymerization of **isobutylene** or copolymerization of isobutylene with compounds which are copolymerizable with it, in an aliphatic C.sub.3 -C.sub.6 -hydrocarbon as the solvent, in the presence of, in each case, from 0.001 to 0.1 percent by weight, based on the weight of the monomers, of a **cationic polymerization** initiator and a coinitiator which are soluble in the solvent, at from -40° to 40° C. under from 0.01 to 10 bar in the absence of air and of moisture, the solvents and monomers vaporized during the polymerization being taken off continuously, liquefied, and fed again into the polymerization zone as a liquid recycle, wherein the liquid stream of the monomer solution, containing 40-95 percent by weight of the monomers, the liquid streams of the recycle and of the coinitiator solution and the separate stream of the initiator solution are combined in the mixing zone which is situated in a polymerization first zone and in which the polymerizing mixture flows freely in a downward direction onto the foam covered surface in which the polymerization continues; the resulting polymer solution is then collected in a second zone located vertically beneath the first zone, without any mixing of the polymer solution with the polymerizing mixture of the polymerization zone taking place; and finally the pure solution consisting of the **isobutylene polymer** and solvent is withdrawn continuously in a downward direction.

=> d his full

(FILE 'HOME' ENTERED AT 16:10:28 ON 23 FEB 2006)
SET ABBR ON PERM
SET PLURALS ON PERM

FILE 'CAPLUS' ENTERED AT 16:11:39 ON 23 FEB 2006

E LEWIS STEWART
E LEWIS STEWART/IN
E LEWIS STEWART/AU
E STEWART LEWIS/AU
L1 0 SEA ABB=ON PLU=ON "STEWART LEWIS"/AU
E LEWIS STEWART/AU
L2 4 SEA ABB=ON PLU=ON "LEWIS STEWART"/AU
D L2 1-4 IBIB ABS
L3 8 SEA ABB=ON PLU=ON "LEWIS STEWART P"/AU
D L3 1-8 IBIB ABS

FILE 'STNGUIDE' ENTERED AT 16:18:37 ON 23 FEB 2006

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 16:33:03 ON 23 FEB 2006

L4 63750 SEA ABB=ON PLU=ON (CATIONIC? OR CARBOCATIONIC? OR ISOBUTENE
OR ISOBUTYLENE) (4A) POLYMER?
L5 19482 SEA ABB=ON PLU=ON (INITIAT? OR COINITIAT?) (S) (BORANE OR
BORON OR ALUMINUM OR ALUMINATE OR ZINC)
L6 2118 SEA ABB=ON PLU=ON L4 AND L5
L7 10 SEA ABB=ON PLU=ON L6 AND (CARBONCATIONIC OR CATIONIC) (3A) (INT
IAT? OR COINITIAT?)
D L7 1-10 IBIB ABS
D L7 3 HIT
D L7 4 HIT
D L7 5 HIT

FILE HOME

FILE CAPLUS

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FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
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FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 21 Feb 2006 (20060221/PD)
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HIGHEST APPLICATION PUBLICATION NUMBER: US2006037120
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FILE USPAT2

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FILE JAPIO
FILE COVERS APR 1973 TO OCTOBER 27, 2005

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